PATENT COOPERATION TREATY **PCT**

REC'D	19	OCT	2001	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	D				
P2000134C		·			
International application No.	International filing de		Priority date (day/montleyear)		
PCT/CN00/00254	L	2000(30.08.00)	07 SEP. 1999(07.09.99)		
International Patent Classification (IPC) or					
	IPC7 A61L2	7/52, A61F2/12			
Applicant					
Applicant	CAO	Mengjun			
This international preliminary examin	nation report has been	prepared by this Internation	onal Preliminary Examining Authority and		
is transmitted to the applicant according	g to Article 36.				
2. This REPORT consists of a total of	3	sheets, including this	cover sheet.		
This report is also accompanied by A			-		
amended and are the basis for this rep	ort and/or sheets conta	ining rectifications made b	efore this Authority (see Rule 70.16 and		
Section 607 of the Administrative Instr	uctions under the PCT				
These annexes consist of a total of	2	sheets.			
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This report contains indications relations	ting to the following ite	ms:			
I Basis of the report					
II ☐ priority					
III Non-establishment of opinio	n with regard to novelt	, inventive step and indust	rial applicability		
IV Lack of unity of invention					
V Reasoned statement under A	rticle 35(2)with regard	to novelty ,inventive step o	r industrial applicability;		
citations and explanations su	pporting such statemen	t			
VI Certain documents cited					
VII Certain defects in the interna	VII Certain defects in the international application				
VII Certain observations on the	international opplicatio	n.			
Date of submission of the demand		Date of completion of this	s report		
30 MAR. 2001(30.03.0	1)		SEP. 2001(10.09.01)		
	·				
Name and mailing address of the IPEA/CN		Authorized officer	季 邱		
6 Xitucheng Rd Jimen Bridge, Haidian District, QIU, Jiangvan 100088 Beijing, China					
Facsimile No. 86-10-62019451 Form PCT/IPEA/409(cover sheet)(July 1998		Telephone No.86-10-620	93037 レド 5年		

INTERNATIONAL PRELIMINATION REPORT

Internal application No. PCT/CN00/00254

1.		asis of the r	report	
1.	With		the elements of the international application:	
	\boxtimes	the descrip	iption:	
		pages	1-4	as originally filed.
		pages		.filed with the demand
		pages	,filed with the letter of	
	\boxtimes	the claims:	S:	
		Nos		as originally file
		Nos	, as amended (together with	th any statement)under Article 19
		Nos	1-14	,filed with the demand
		Nos	.filed with the letter of	
	×	the drawin	nes:	
	_	sheets/fig	1-2	as originally filed
		sheets/fig		filed with the demand
		sheets/fig	filed with the letter of	
			ence listing part of the description:	
	ш	pages	ance using part of the description.	as originally filed
		pages		filed with the demand
		pages	filed with the letter of	
3.	The	the langua the langua the langua and/or 55.3 regard to a	on the language, all the elements marked above were available or furnished te ternational application was filedunless otherwise indicated under this item, swere available or furnished to this Authority in the following language tage of a translation furnished for the purposes of international search search (ur age of publication of the international application(under Rule 48.3(b)), uage of the translation furnished for the purposes of international preliminary er .3), any nucleotide and/or amino acid sequence disclosed in the internation mination was carried out on the basis of the sequence listing:	which is: uder Rule 23.1(b)).
	0000	contained ir filed togethe furnished su furnished su The stateme	in the international application in written form. her with the international application in computer readable form. subsequently to this Authority in written form. subsequently to this Authority in computer readable form. sent that the subsequently furnished written sequence listing does not go beyond on as filed has been furnished.	the disclosure in the international
		The statem furnished.	ment that the information recorded in computer readable form is identical to the \cdot	e written sequence listing has been
			dments have resulted in the cancellation of: the description,pages the claims Noa. the drawings,sheets/fig	
5.	_		s been established as if (some of)the amendments had not been made, since the	y have been considered to go
	-		closure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	and the state of t
•		his report a:	ets which have been furnished to the receiving Office in response to an invitati as "originally filed" and are not annexed to this report since they do not con	
••	Any re	placement s	sheet containing such amendments must be referred to under item I and annexe	d to this report.

INTERNATIONAL PRELIM

	Internation No. PCT/CN00/00254
ı	PC1/CN00/00254

			Pene			
V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
citations and explanations supporting such statement						
Statement:						
Novelty (N)	Claims	1-14				
	Claims			NO		
Inventive step (IS)		1-14				
	Claims			NO		
Industrial applicability (IA)	Claims	1.14		YES		
modular approaching (i.e.,		1-14				
	Claims					
. Citations and explanations (Rule 70.	7)					
Chairs 1-14 meet the cri		. :- DCT A-1-1- 22(2)	(4) hassuss the de-	aumanto aitad in t		
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CLAIMS

1.A mammary prosthesis made of polyacrylamide hydrogel, comprising shell 2 which is made of medical high polymer elastic material, and polyacrylamide hydrogel 4 filled in said shell 2.

2.A mammary prosthesis as claimed in claim 1 wherein said medical high polymer elastic material is silicon.

3.A mammary prosthesis as claimed in claim 1 wherein said polyacrylamide hydrogel 4 being prepared by adding 2.5-7grams of polyacrylamide dry powder into every 100ml water.

4.A mammary prosthesis as claimed in claim 1 wherein the weight percentage of said polyacrylamide hydrogel 4 is: 2.5 - 8% acylamide, 0.001 - 3.0% cross-linking agent, 0.001 - 4.00% catalyst, 0.001 - 2.00% accelerator, 0.001 - 2.00% facilitator and the other is sterile secondary distilled water.

5.A mammary prosthesis as claimed in claim 4 wherein said cross-linking agent is N, N -methylenebisacrylamide and its homologous compound, or N, N -diallyltartratdiamide, said catalyst is ammonium persulfate or kalium persulfate, said accelerator is sodium

1

bisulphate or sodium metasulphite, said facilitators comprise triethanolamide, triethlamine or their N, N 'ethylenediamine substances which contains substituting groups.

- 6.A mammary prosthesis as claimed in claim 5 wherein said shell 2 has a round curved surface.
- 7.A mammary prosthesis made of polyacrylamide hydrogel comprising a shell 2 that is made of medical high polymer elastic material; wherein said shell 2 is filled with dry powder 3 of polyacrylamide hydrogel whose weight is matched with the volume (ml) of said shell 2,wherein each 100ml volumes of said shell 2 could be filled with 2.5-7 grams of said dry powder, wherein said shell 2 has non-return valve 1.
- 8. A mammary prosthesis as claimed in claim 7 wherein each 100ml volumes of the shell 2 could be filled with 4 grams of said dry powder 3.
- 9.A mammary prosthesis as claimed in claim 7 wherein said medical high polymer elastic material is silicone.
- 10.A mammary prosthesis as claimed in claim 7 wherein said polyacrylamide hydrogel dry powder in weight comprises 2.5 8 units

of acrylamide, 0.001 - 3.0 units of cross-linking agent, 0.001 -4 units of catalyst, 0.001 - 2.00 units of accelerator, 0.001 - 2.00 units of facilitator.

11.A mammary prosthesis as claimed in claim 10 wherein said cross-linking agent is N, N ´-methylenebisacrylamide and its homologous compound, or N, N ´-diallyltartratdiamide, said catalyst is ammonium persulfate or kalium persulfate, said accelerator is sodium bisulphate or sodium metasulphite, and said facilitators comprise triethanolamide, triethlamine or their N, N ´ ethylenediamine substances which contains substituting groups.

12.A mammary prosthesis as claimed in claim 7 wherein said shell 2 has a round curved surface.

13.A mammary prosthesis as claimed in claim 12 wherein said non-return valve 1 is located in the center of one face of said shell 2.

专利合作条约

PCT

国际初步审查报告 (PCT 条约 36 和细则 70)



申请人或代理人的档案号 P2000134C	关于后续行为	参见"传送	国际初步审查报告的通	通知"(PCT/IPEA/416 表)	
国际申请号	国际申请日(日/)	9/年)	优先权日(日/)	月/年)	
PCT/CN00/00254	30.8月20	00(30.08.00)	07.9 月	1999(07.09.99)	
国际专利分类(IPC)或者国家分类和 IPC7 A61L27/52, A61F2/12	C 两种分类				
中请人	曹	孟君			
本国际初步审查单位已作出国际 本报告共计 3 页,包括扉页。 本报告共计 7 页,包括扉页。 本报告还有附件。即修改后页,和/或对本国际初步审查这些附件共计 2 页	的并且作为本报告	基础的说明:	片修改页、权利要求书	修改页和/或附图修改,	
3. 本报告包括关于下列各项的内容:					
Ⅰ 図 报告的基础					
Ⅱ □ 优先权					
III 🔲 不作出关于新颖性、创油	造性和工业实用性	的意见			
IV 🔲 缺乏发明的单一性					
V 🛛 按条约 35(2)关于新颖性	V ☑ 按条约 35(2)关于新颖性、创造性或工业实用性的推断性意见,支持这种意见的引证和解释				
VI 🗌 引用的某些文件					
VII 国际中请中的某些缺陷					
VIII					
提交要求书的日期		完成本报告			
30.3 月 2001(30.03.0	1)		10.9 月 2001(10.	.09.01)	
国际初步审查单位名称和地址 IPEA/CN 中国北京市海淀区西土城路 6	号(100088)	受权官员	邱绛雯	雯邱 印络	

电话号码: 86-10-62093037

国际 审查报告



1. 报告的基础			
1. 关于国际申请中名	5个部分: *		
□ 原始提交的	国际申请。		
図 说明书,	第1-4	页,按 原始提交的,	
_	第	页,随 要求书提交的	,
		页,随	
□ 权利要求,		页,原 始提交的,	
		页,按条约第19条(多改的(附有说明)。
		项,随 要求书提交的	
□ 附图,	第 1-2 页	1,原始提交的。	
		(, 随要求书提交的,	
□ 说明书中的			
_	第	页,原始要求提交的	J,
		页,随要求书提交的	
的上述附有的市 上述附初言 一 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	所使用新语的语言或向 所使用新语的语言或向 经金索而提供 医中间 经金索 医神术 经 化电子 医中原 的变色 经 不知 电子 一种	为提交本国际申请时所使用的设本国际初步审查单位提交的这些 本国际初步审查单位提交的这些 等本所使用的语言(细则 23.1 (目的语言(细则 48.3 (b))。 定的译本所使用的语言(细则 55 或数和/或氨基酸的序列。本国的 等形式的序列表。 十岁机可读形式的序列表。 大约中百章单位提交的序列表。 大向本国际初步审查单位提交的 的书写形式的序列表及有超出除 可读的形式记载的信息是与书写;	(部分所使用的语言是
□ 说明书,	第	页	
□ 权利要求	Ŕ, 第	项	
□ 附图,	第	页,图	
出的(细则 70 * 按照条约第 14 条管 本报告的附件,因;).2(c))。** ·复通知时向受理局 ·为它们没有包含修改		,因此本报告是按照如同没有修改的情况作 "原始提交的",这些替换页不作为 件。
L			

国际专审查报告

国际申	请号	
	PCT/CN0	00/00254

<i>'</i> .	按条约 35 条(2)关于	F新颖性、创造性或工业实用性的推断性意见:支持这种意见的	引证和解释
	意见		
	新颖性(N)	权利要求 1 - 14	是
		权利要求	රි
	创造性(IS)	权利要求 4	是
		权利要求	
	工业实用性(IA)	权利要求 1 - 14	是
		权利要求	
	引征和解释(细则	70.7)	
	权利要求 1 至 14 名	守合 PCT 条约第 33 条第 2 至 4 款的规定,因为国际检索报告中	引证的对比文件均没有
汉		它们的从属权利要求所要保护的技术方案,并且也没有给出相关	

权利要求

- 1、一种聚丙烯酰胺水凝胶乳房假体,包括:用聚硅氧烷弹性体制成的壳体 2,充填在所述密封壳体 2内的聚丙烯酰胺水凝胶 4,所述聚丙烯酰胺水凝胶 4由100毫升水加2.5-7克聚丙烯酰胺干粉制备而成,其中,聚丙烯酰胺干粉是将重量百分比2.5-8%的丙烯酰胺、0.001-3.0%的交联剂、0.001-4.00%的催化剂、0.001-2.00%的加速剂、0.001-2.00%的促进剂,加水到100%聚合、洗涤、浸泡、离心脱水、烘干而成。
- 2、根据权利要求 1 所述的乳房假体,其特征在于,所述交联剂为 N, N Z
- 3、根据权利要求 2 所述的乳房假体, 其特征在于, 所述催化剂是 过硫酸胺或过硫酸钾。
- 4、根据权利要求 3 所述的乳房假体, 其特征在于,所述加速剂可以是亚硫酸氢钠或偏亚硫酸钠。
- 5、根据权利要求 4 所述的乳房假体, 其特征在于,所述促进剂包括三乙醇胺或三乙胺及其含取代基的 N, N´乙二胺类。
- 6、根据权利要求 5 所述的乳房假体,其特征在于其中,所述壳体 2 有一个球形曲面。
- 7、一种聚丙烯酰胺水凝胶乳房假体,其特征在于,包括用聚硅氧烷弹性体制成的带单向阀 1 的壳体 2,在所述壳体 2 内置入有其

IPEA/CN 修改页

3.0

重量(克)与所述壳体2容积(亳升)成一定比例的聚丙烯酰胺水凝胶干粉3,所述水凝胶干粉3重量(克)与所述壳体2容积(亳升)的一定比例是每100毫升容积2.5-7克干粉,所述聚丙烯酰胺干粉是将重量百分比2.5-8%的丙烯酰胺、0.001-3.0%的交联剂、0.001-4.00%的催化剂、0.001-2.00%的加速剂、0.001-2.00%的促进剂,加水到100%聚合、洗涤、浸泡、离心脱水、烘干而成。

- 8、根据权利要求 7 所述的乳房假体, 其特征在于, 所述水凝胶 干粉 3 重量(克)与所述壳体 2 容积(亳升)的一定比例是 100 亳 升: 4克。
- 9、根据权利要求 8 所述的乳房假体, 其特征在于, 所述交联剂为 N, N´- 乙撑双丙烯酰胺及其同系物或 N, N´二烯丙基酒石酸二酰胺。
- 10、根据权利要求 9 所述的乳房假体,其特征在于,所述催化剂 是过硫酸胺或过硫酸钾。
- 11、根据权利要求 10 所述的乳房假体, 其特征在于,所述加速剂 是亚硫酸氢钠或偏亚硫酸钠。
- 12、根据权利要求 11 所述的乳房假体,其特征在于,所述促进剂包括三乙醇胺或三乙胺及其含取代基的 N, N 乙二胺类。
- 13、根据权利要求 7-12 所述的乳房假体, 其特征在于, 所述壳体 2 有一个球形曲面。
- 14、根据权利要求 7-12 所述的乳房假体, 其特征在于, 所述单向阀门 1 设置在所述圆形袋壳体 2 一面的中心位置处。

IPEAUCH 修改页